

# Cloning Quantum Information from the Past



Up until now it was thought impossible for things such as time travel and the copying of quantum information to exist due to the paradoxes they would create. However, a new theory by Mark Wilde suggests that these things could be possible as long as they are done in a self-consistent manner. Thus far the Uncertainty Principle has set the limit on this, being that you could not know enough about a particles momentum and position copy it. By traveling through a wormhole connected to the past, Wilde suggests that a particle must remain the same when ever it passed through a certain point in time. This would allow for the prediction and further observation of a single particle, possibly gaining more information each time than the Uncertainty Principle would allow at a single time.

